

OIPE

Common Errors Corrected by the STIC Systems Branch

11/28/01

Serial Number:

091901545

RF Processing Date:

12/3/01

Edited by:

Verified by:

DC

(STIC sta

#2 0590 1205

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:
- ☐ Deleted extra, invalid, headings used by an applicant, specifically:
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as
- ☐ Inserted mandatory headings, specifically:
- ☐ Corrected an obvious error in the response, specifically:
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:
- ☐ Other:

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

OIPE

## RAW SEQUENCE LISTING

DATE: 12/03/2001

PATENT APPLICATION: US/09/989,545

TIME: 11:29:04

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\12032001\I989545.raw

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3 <110> APPLICANT: Lehar, Sophie
4      Manning, Stephen
5      Coyle, Anthony J.
6      Gutierrez-Ramos, Jose-Carlos
8 <120> TITLE OF INVENTION: Novel Th2-Specific Molecules and Uses Thereof
10 <130> FILE REFERENCE: 5800-10B
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/989,545
C--> 13 <141> CURRENT FILING DATE: 2001-11-20
15 <150> PRIOR APPLICATION NUMBER: 09/168,229
16 <151> PRIOR FILING DATE: 1998-10-07
18 <150> PRIOR APPLICATION NUMBER: 09/258,670
19 <151> PRIOR FILING DATE: 1999-02-26
21 <160> NUMBER OF SEQ ID NOS: 24
23 <170> SOFTWARE: PatentIn Ver. 2.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 3631
27 <212> TYPE: DNA
28 <213> ORGANISM: Mus sp.
30 <220> FEATURE:
31 <221> NAME/KEY: CDS
32 <222> LOCATION: (126)..(1304)
34 <400> SEQUENCE: 1
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39 tgctc atg gct ttt ttg atg aag aag aag aaa ttt aaa ttt caa acc act 170
40      Met Ala Phe Leu Met Lys Lys Lys Lys Phe Lys Phe Gln Thr Thr
41      1          5          10         15
43 ttc acc ttg gag gag ctg act gcg gtc ccc ttc gtg aac ggg gtc ctc 218
44 Phe Thr Leu Glu Glu Leu Thr Ala Val Pro Phe Val Asn Gly Val Leu
45      20         25         30
47 ttt tgc aag gtc cgg ctg ctg gat ggc ggg gat ttt gtc agc ttg tcg 266
48 Phe Cys Lys Val Arg Leu Leu Asp Gly Gly Asp Phe Val Ser Leu Ser
49      35         40         45
51 tcc agg gag gag gtg cag gag aac tgt gta cga tgg cgg aag agg ttc 314
52 Ser Arg Glu Glu Val Gln Glu Asn Cys Val Arg Trp Arg Lys Arg Phe
53      50         55         60
55 acc ttt gtg tgt aaa atg agt gcc aac ccg gcc aca ggc ctg ctg gac 362
56 Thr Phe Val Cys Lys Met Ser Ala Asn Pro Ala Thr Gly Leu Leu Asp
57      65         70         75
59 ccc tgc atc ttt cga gtg tct gtg cgc aag gag ctg aaa ggt ggg aag 410
60 Pro Cys Ile Phe Arg Val Ser Val Arg Lys Glu Leu Lys Gly Gly Lys
61 80          85          90          95
63 gcg tat tcc aag ctg ggc ttc act gac ttg aac cta gcc gag ttt gca 458
64 Ala Tyr Ser Lys Leu Gly Phe Thr Asp Leu Asn Leu Ala Glu Phe Ala
65      100         105        110
67 ggc tca ggc tcc acc gtc cgc tgc tgc cta ttg gaa gga tac gac acc 506
68 Gly Ser Gly Ser Thr Val Arg Cys Cys Leu Leu Glu Gly Tyr Asp Thr

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Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\12032001\I989545.raw

69	115	120	125	
71 aag aat acc cgc cag gac aac tcc atc ctc aag gtc acc att ggc atg	554			
72 Lys Asn Thr Arg Gln Asp Asn Ser Ile Leu Lys Val Thr Ile Gly Met				
73 130 135 140				
75 ttc ctg ctc tct ggg gac ccc tgt ttc aag acg cca ccg tct acc gcc	602			
76 Phe Leu Leu Ser Gly Asp Pro Cys Phe Lys Thr Pro Pro Ser Thr Ala				
77 145 150 155				
79 aaa tcc atc tcc atc ccg ggc cag gac tcc tcc ctg cag ctg acg tgt	650			
80 Lys Ser Ile Ser Ile Pro Gly Gln Asp Ser Ser Leu Gln Leu Thr Cys				
81 160 165 170 175				
83 aaa ggt ggt ggg acc agc agc ggt ggc agc agc agc acc aat tcc cta	698			
84 Lys Gly Gly Gly Thr Ser Ser Gly Gly Ser Ser Ser Thr Asn Ser Leu				
85 180 185 190				
87 act gga tcc cgg ccc ccc aag acc cgg ccc acc atc ctg ggc tca gga	746			
88 Thr Gly Ser Arg Pro Pro Lys Thr Arg Pro Thr Ile Leu Gly Ser Gly				
89 195 200 205				
91 cta cca gag gag cca gac cag agc ctg tcc agt cct gag gag gtg ttc	794			
92 Leu Pro Glu Glu Pro Asp Gln Ser Leu Ser Ser Pro Glu Glu Val Phe				
93 210 215 220				
95 cac tct ggc cac tcc cgc aac tcc agc tat gcc agc cag cag tcc aag	842			
96 His Ser Gly His Ser Arg Asn Ser Ser Tyr Ala Ser Gln Gln Ser Lys				
97 225 230 235				
99 cta tct ggc tac agt aca gag cac tct cgc tcc tcc agc ctg tct gac	890			
100 Leu Ser Gly Tyr Ser Thr Glu His Ser Arg Ser Ser Ser Leu Ser Asp				
101 240 245 250 255				
103 ttg aca cac cgc aga aat aca tcc acc agc agc agc gcc tct ggt ggc	938			
104 Leu Thr His Arg Arg Asn Thr Ser Thr Ser Ser Ser Ala Ser Gly Gly				
105 260 265 270				
107 ctc agt atg gct gta gag ggt cct gag ggc atg gag agg gag cat cgg	986			
108 Leu Ser Met Ala Val Glu Gly Pro Glu Gly Met Glu Arg Glu His Arg				
109 275 280 285				
111 ccc tct gag aag cca cct cgg cct gag aag ccc cca cgc ccc cca	1034			
112 Pro Ser Glu Lys Pro Pro Arg Pro Pro Glu Lys Pro Pro Arg Pro Pro				
113 290 295 300				
115 cgc ccc ttg cat cta tca gat cgc tct ttt cgg cga aag aaa gac tct	1082			
116 Arg Pro Leu His Leu Ser Asp Arg Ser Phe Arg Arg Lys Lys Asp Ser				
117 305 310 315				
119 gtg gag agc cac cca acc tgg gta gat gac act cga att gat gca gac	1130			
120 Val Glu Ser His Pro Thr Trp Val Asp Asp Thr Arg Ile Asp Ala Asp				
121 320 325 330 335				
123 gac att gtg gag aag ata atg cag agc cag gac ttc act gat ggc agc	1178			
124 Asp Ile Val Glu Lys Ile Met Gln Ser Gln Asp Phe Thr Asp Gly Ser				
125 340 345 350				
127 aac act gag gac agt aac ctt cgg ctg ttc gtg agc cgt gat ggc tcc	1226			
128 Asn Thr Glu Asp Ser Asn Leu Arg Leu Phe Val Ser Arg Asp Gly Ser				
129 355 360 365				
131 acc aca ctg agc ggc att cag ctg ggc aac aga gtc tcc tcg gga gtc	1274			
132 Thr Thr Leu Ser Gly Ile Gln Leu Gly Asn Arg Val Ser Ser Gly Val				
133 370 375 380				

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Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\12032001\I989545.raw

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135 tac gag cca gtc gta att gag agc cac tga gggacccagg agtccggctg      1324
136 Tyr Glu Pro Val Val Ile Glu Ser His
137      385                      390
139 aagaagggtc ctgccatctc tggcacccag gcccggtggca ttcctggagg atctgctctg 1384
141 cattgcatct gtgcctcctc ttactctagc cacactggcc cccaaagcgt cattccattt 1444
143 tctctcccatc caccctggaa ccaactggtc tgggtgccac tgtgaatatt gtcctccgaa 1504
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151 tgtccctgcc cttcacgagc tggggcaccc cagaacctg ccacctgtga cctctgtctt 1744
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155 taagacctca aaccccacac tctggattga gacccacact ccttaactgt cctcctgctg 1864
157 ccctgcagcc tgcactttgc acatgcttgt ccccagcaca gccaccggcc cttgcccttc 1924
159 tccagacctc ctgggtgctg tctgctgtgc aaccagacct agggtagagt cggccggctg 1984
161 gaacgtggca ctaccccttc cctctaatta accccaaact cagacccaag accggagcct 2044
163 agaagggcct gagcatcatg gttccatctg ccaggggctg ggtcctgagc agctggcctt 2104
165 cctgcaggaa aggaaggagc aggccagcc gtgctgggta agcaaaggcc ttttccccct 2164
167 gctctcatgt cagccggcct gggctgggtt ccaggctaga gagtcagcca ggtggcctgt 2224
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171 tgtgttttcc ctggggagtc ttccccctac tactcaccct cttggtagct ccccaacccc 2344
173 agcactttct gtcctataat ttgcttaagg agagtatagg ctgccagctc agccctggat 2404
175 aaattcccac ccccttaagt ttactcact tcgtatcaac ccagcaggct ggtgtttcct 2464
177 tggcccttta aggtgttttt cctcctgagt tcacagttct tgtattcctt ccaccccaac 2524
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183 ccttgccctag tttgtgtctt cctcagctag caaaggttgg ggctgtggtc ttggagctgc 2704
185 ctggtgtcag gaccagatca tttctatagg ttctgtagcc gttgttttaa tcagcagatg 2764
187 aatgtttaga gatgctgcca aggcaaggca gaacatggct agagaagggt ccggcagctc 2824
189 agattccatc ctgccagca ggtgcctggc actttaaggg actctggcag ctctgttcct 2884
191 aggtgaggtg accaccagaa gatggacaga gccctagtgt gcttgtctac taccttcccc 2944
193 agtcagcatt gttttggtct agttctaaat tccagggctc caaaccaagc agttggtact 3004
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205 gccagtttgg gacctgtaag acagtttaat gtttctatta gagagatata aaagatctgc 3364
207 aatattttta gggttctttt ctggttaccc tacagctgac cacgtggctc ggcaggatga 3424
209 gcaggcccat cttctctctg tggggagaatt tgcttttgtg ttattccttt ctaaccaggt 3484
211 taccactgca cccattccg tgggctgttc atatctgtct cagcttataa tagaaaatta 3544
213 tgtcatatgg ggaaatcagc ctagtgtcaa tgtttggttt ggggggtggaa ttaaatgccg 3604
215 atgtttttgt taaaaaaaaa aaaaaaa      3631
218 <210> SEQ ID NO: 2
219 <211> LENGTH: 392
220 <212> TYPE: PRT
221 <213> ORGANISM: Mus sp.
223 <400> SEQUENCE: 2
224 Met Ala Phe Leu Met Lys Lys Lys Lys Phe Lys Phe Gln Thr Thr Phe
225      1                      5                      10                      15

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## RAW SEQUENCE LISTING

DATE: 12/03/2001

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Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\12032001\I989545.raw

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227 Thr Leu Glu Glu Leu Thr Ala Val Pro Phe Val Asn Gly Val Leu Phe
228          20          25          30
230 Cys Lys Val Arg Leu Leu Asp Gly Gly Asp Phe Val Ser Leu Ser Ser
231          35          40          45
233 Arg Glu Glu Val Gln Glu Asn Cys Val Arg Trp Arg Lys Arg Phe Thr
234          50          55          60
236 Phe Val Cys Lys Met Ser Ala Asn Pro Ala Thr Gly Leu Leu Asp Pro
237          65          70          75          80
239 Cys Ile Phe Arg Val Ser Val Arg Lys Glu Leu Lys Gly Gly Lys Ala
240          85          90          95
242 Tyr Ser Lys Leu Gly Phe Thr Asp Leu Asn Leu Ala Glu Phe Ala Gly
243          100         105         110
245 Ser Gly Ser Thr Val Arg Cys Cys Leu Leu Glu Gly Tyr Asp Thr Lys
246          115         120         125
248 Asn Thr Arg Gln Asp Asn Ser Ile Leu Lys Val Thr Ile Gly Met Phe
249          130         135         140
251 Leu Leu Ser Gly Asp Pro Cys Phe Lys Thr Pro Pro Ser Thr Ala Lys
252          145         150         155         160
254 Ser Ile Ser Ile Pro Gly Gln Asp Ser Ser Leu Gln Leu Thr Cys Lys
255          165         170         175
257 Gly Gly Gly Thr Ser Ser Gly Gly Ser Ser Ser Thr Asn Ser Leu Thr
258          180         185         190
260 Gly Ser Arg Pro Pro Lys Thr Arg Pro Thr Ile Leu Gly Ser Gly Leu
261          195         200         205
263 Pro Glu Glu Pro Asp Gln Ser Leu Ser Ser Pro Glu Glu Val Phe His
264          210         215         220
266 Ser Gly His Ser Arg Asn Ser Ser Tyr Ala Ser Gln Gln Ser Lys Leu
267          225         230         235         240
269 Ser Gly Tyr Ser Thr Glu His Ser Arg Ser Ser Ser Leu Ser Asp Leu
270          245         250         255
272 Thr His Arg Arg Asn Thr Ser Thr Ser Ser Ser Ala Ser Gly Gly Leu
273          260         265         270
275 Ser Met Ala Val Glu Gly Pro Glu Gly Met Glu Arg Glu His Arg Pro
276          275         280         285
278 Ser Glu Lys Pro Pro Arg Pro Pro Glu Lys Pro Pro Arg Pro Pro Arg
279          290         295         300
281 Pro Leu His Leu Ser Asp Arg Ser Phe Arg Arg Lys Lys Asp Ser Val
282          305         310         315         320
284 Glu Ser His Pro Thr Trp Val Asp Asp Thr Arg Ile Asp Ala Asp Asp
285          325         330         335
287 Ile Val Glu Lys Ile Met Gln Ser Gln Asp Phe Thr Asp Gly Ser Asn
288          340         345         350
290 Thr Glu Asp Ser Asn Leu Arg Leu Phe Val Ser Arg Asp Gly Ser Thr
291          355         360         365
293 Thr Leu Ser Gly Ile Gln Leu Gly Asn Arg Val Ser Ser Gly Val Tyr
294          370         375         380
296 Glu Pro Val Val Ile Glu Ser His
297          385         390
300 <210> SEQ ID NO: 3

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/989,545

DATE: 12/03/2001

TIME: 11:29:04

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\12032001\I989545.raw

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303 <213> ORGANISM: Mus sp.
305 <220> FEATURE:
306 <221> NAME/KEY: CDS
307 <222> LOCATION: (36)..(1430)
309 <400> SEQUENCE: 3
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311                               Met Gly Arg Ala Trp Gly
312                               1           5
314 ttg ctc gtt gga ctc ctg ggc gtc gtg tgg ctg ctg cgc ttg ggc cac 101
315 Leu Leu Val Gly Leu Leu Gly Val Val Trp Leu Leu Arg Leu Gly His
316                               10           15           20
318 ggc gag gag cgg cgg gag aca gcg gca cag cgc tgc ttc tgc cag 149
319 Gly Glu Glu Arg Arg Pro Glu Thr Ala Ala Gln Arg Cys Phe Cys Gln
320                               25           30           35
322 gtt agt ggt tac ctg gac gac tgt acc tgt gat gtc gag acc atc gat 197
323 Val Ser Gly Tyr Leu Asp Asp Cys Thr Cys Asp Val Glu Thr Ile Asp
324                               40           45           50
326 aag ttt aat aac tac aga ctt ttc cca aga cta caa aag ctt ctt gaa 245
327 Lys Phe Asn Asn Tyr Arg Leu Phe Pro Arg Leu Gln Lys Leu Leu Glu
328 55                               60           65           70
330 agt gac tac ttt aga tat tac aag gtg aac ttg aag aag cct tgt cct 293
331 Ser Asp Tyr Phe Arg Tyr Tyr Lys Val Asn Leu Lys Lys Pro Cys Pro
332                               75           80           85
334 ttc tgg aat gac atc aac cag tgt gga aga aga gac tgt gcc gtc aaa 341
335 Phe Trp Asn Asp Ile Asn Gln Cys Gly Arg Arg Asp Cys Ala Val Lys
336                               90           95           100
338 ccc tgc cat tct gat gaa gtt cct gat gga att aag tct gcg agc tac 389
339 Pro Cys His Ser Asp Glu Val Pro Asp Gly Ile Lys Ser Ala Ser Tyr
340                               105          110          115
342 aag tat tct gag gaa gcc aac cgc att gaa gaa tgt gag caa gct gag 437
343 Lys Tyr Ser Glu Glu Ala Asn Arg Ile Glu Glu Cys Glu Gln Ala Glu
344                               120          125          130
346 cga ctt gga gcc gtg gat gag tct ctg agt gag gag acc cag aaa gct 485
347 Arg Leu Gly Ala Val Asp Glu Ser Leu Ser Glu Glu Thr Gln Lys Ala
348 135                               140          145          150
350 gta ctt cag tgg acc aag cat gat gat tcg tca gac agc ttc tgc gaa 533
351 Val Leu Gln Trp Thr Lys His Asp Asp Ser Ser Asp Ser Phe Cys Glu
352                               155          160          165
354 att gac gat ata cag tcc ccc gat gct gag tat gtg gac tta ctc ctt 581
355 Ile Asp Asp Ile Gln Ser Pro Asp Ala Glu Tyr Val Asp Leu Leu Leu
356                               170          175          180
358 aac cct gag cgc tac aca ggc tac aag ggg cca gac gct tgg agg ata 629
359 Asn Pro Glu Arg Tyr Thr Gly Tyr Lys Gly Pro Asp Ala Trp Arg Ile
360                               185          190          195
362 tgg agt gtc atc tat gaa gaa aac tgt ttt aag cca cag aca att caa 677
363 Trp Ser Val Ile Tyr Glu Glu Asn Cys Phe Lys Pro Gln Thr Ile Gln
364                               200          205          210

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Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

## VERIFICATION SUMMARY

DATE: 12/03/2001

PATENT APPLICATION: US/09/989,545

TIME: 11:29:05

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\12032001\I989545.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:428 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3  
L:659 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5  
L:1170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:1767 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:15

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/989,545

DATE: 11/28/2001

TIME: 11:33:39

Input Set : A:\Seq listing as filed.txt

Output Set: N:\CRF3\11212001\I989545.raw

**Does Not Comply  
Corrected Diskette Needed**

3 <110> APPLICANT: Lehar, Sophie  
 4 Manning, Stephen  
 5 Coyle, Anthony J.  
 6 Gutierrez-Ramos, Jose-Carlos  
 8 <120> TITLE OF INVENTION: Novel Th2-Specific Molecules and Uses Thereof  
 10 <130> FILE REFERENCE: 5800-10B  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/989,545  
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 15 <150> PRIOR APPLICATION NUMBER: 09/168,229  
 16 <151> PRIOR FILING DATE: 1998-10-07  
 18 <150> PRIOR APPLICATION NUMBER: 09/258,670  
 19 <151> PRIOR FILING DATE: 1999-02-26  
 21 <160> NUMBER OF SEQ ID NOS: 24  
 23 <170> SOFTWARE: PatentIn Ver. 2.0

## ERRORED SEQUENCES

2290 <210> SEQ ID NO: 24  
 2291 <211> LENGTH: 18  
 2292 <212> TYPE: DNA  
 2293 <213> ORGANISM: Artificial Sequence  
 2295 <220> FEATURE:  
 2296 <223> OTHER INFORMATION: Description of Artificial Sequence:  
 2297 oligonucleotide primer  
 2299 <400> SEQUENCE: 24  
 2300 ggcccaggct acaggctg  
 E--> 2304 ①  
 E--> 2307 ① \ delete

18



## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/989,545

DATE: 11/28/2001

TIME: 11:33:40

Input Set : A:\Seq listing as filed.txt

Output Set: N:\CRF3\11212001\I989545.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:428 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3  
L:659 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5  
L:1170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:1767 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:15  
L:2304 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:18 SEQ:24  
M:254 Repeated in SeqNo=24